

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092120 A2

(51) International Patent Classification⁷: **C07D**

(21) International Application Number:
PCT/US2004/010638

(22) International Filing Date: 7 April 2004 (07.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/460,859 7 April 2003 (07.04.2003) US
60/479,323 18 June 2003 (18.06.2003) US

(71) Applicants (for all designated States except US): **NPS PHARMACEUTICALS, INC.** [US/US]; 420 Chipeta Way, Salt Lake City, UT 84108 (US). **GLAXOSMITHKLINE** [US/US]; 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHCHERBAKOVA, Irina, V.** [US/US]; 420 Chipeta Way, Salt Lake City, UT 84108 (US). **BALANDRIN,**

Manuel, F. [US/US]; 420 Chipeta Way, Salt Lake City, UT 84108 (US). **HUANG, Guangfei** [CN/US]; 13305 Rachael Blvd., Alchua, FL 32615 (US). **GEOFFROY, Otto** [US/US]; 13305 Rachael Blvd., Alachua, FL 32615 (US). **FOX, John** [GB/US]; 420 Chipeta Way, Salt Lake City, UT 84108 (US). **MARQUIS, Robert** [US/US]; 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US). **YAMASHITA, Dennis, Shinji** [US/US]; 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US). **LUENGO, Juan** [ES/US]; 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US). **WANG, Wenyong** [CN/US]; 709 Swedeland Road, King of Prussia, PA 19406-0939 (US).

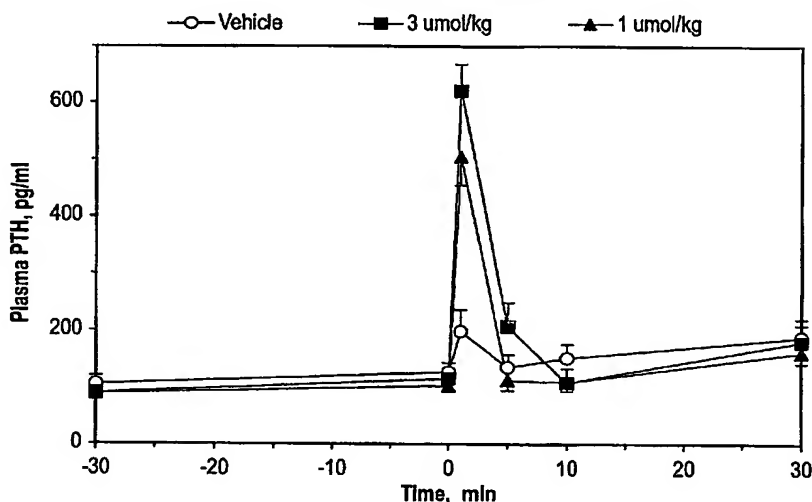
(74) Agent: **LAURENCE, Kevin, B.**; One Utah Center, 201 So. Main Street, Suite 1100, Salt Lake City, UT 84111 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: PYRIMIDINONE COMPOUNDS AS CALCILYTICS

Effect of bolus i.v. injection of compound of Example 9 on plasma PTH levels in normal rats



(57) Abstract: The pyrimidinone compounds are disclosed. Methods of preparing the pyrimidinone compounds are also disclosed.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.